



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MORIARTY, K et al.

Docket Number: 19.0353

Serial No.:

Group Art Unit:

Filed Herewith

Examiner:

Title: DIRECTIONAL CASING DRILLING

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

|  |  |
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| SIGNED: <u>Kerry Morris</u><br><u>Kerry Morris</u>   |  |

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Please find enclosed an Information Disclosure Statement (Form PTO-1449) for consideration with respect to the above-identified patent application under the provisions of 37 CFR 1.97-1.98.

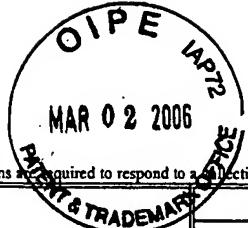
It is respectfully requested that these references be considered by the Examiner and formally made of record in this case. A completed PTO-1449 is included for this purpose.

No fees are thought to be necessary. However, please charge any necessary fees or credit any overpayments to Deposit Account No. 50-2898. Please stamp and return the enclosed postcard to acknowledge receipt of these documents.

Respectfully submitted,

Tim W. Curington  
Registration No. 45,944  
Stonehouse Technology Centre  
Brunel Way, Stroudwater Business Park  
Stonehouse, Glos GL10 3SX  
UK  
Phone: 1 281 285 7067

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PTO/SB/08A (10-96)

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| Substitute for form 1449A/PTO |   |    |   | Complete if Known      |          |
|                               |   |    |   | Application Number     |          |
|                               |   |    |   | Filing Date            |          |
|                               |   |    |   | First Named Inventor   | Moriarty |
|                               |   |    |   | Group Art Unit         |          |
|                               |   |    |   | Examiner Name          |          |
| Sheet                         | 1 | of | 2 | Attorney Docket Number | 19.0353  |

#### U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Patent Document |                        | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|----------------------|------------------------|---|---------------------------------------|---|
|                    |                       | Number               | Kind Code <sup>2</sup> |   |                                       |   |
|                    | 1                     | 5,117,927            |                        | Askew   | 1992-06-02                            |   |
|                    | 2                     | 5,845,722            |                        | Makohl et al.                                   | 1998-12-08                            |   |
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|                    | 5                     | 6,263,987            |                        | Vail, III                                       | 2001-07-24                            |   |
|                    | 6                     | 5,472,057            |                        | Winfree   | 1995-12-05                            |   |
|                    | 7                     | 4,842,081            |                        | Parant  | 1989-06-27                            |   |
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#### U.S. PUBLISHED APPLICATIONS

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Publication Number |                        | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|-------------------------|------------------------|---|---------------------------------------|---|
|                    |                       | Number <sup>4</sup>     | Kind Code <sup>5</sup> |   |                                       |   |
|                    | 1                     | 20020175003             |                        | Pisoni et al.                                   | 2002-11-28                            |   |
|                    | 2                     | 20020179336             |                        | Schaaf et al.                                   | 2002-12-05                            |   |
|                    | 3                     | 20020050360             |                        | Cook et al.                                     | 2002-05-02                            |   |
|                    | 4                     | 20020040787             |                        | Cook et al.                                     | 2002-04-11                            |   |

#### FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document |                        | Country | Date of Publication of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|-------------------------|------------------------|---------|---------------------------------------|---|
|                    |                       | Number <sup>4</sup>     | Kind Code <sup>3</sup> |         |                                       |   |
|                    | 1                     | EP0462618A2             |                        | Europe  | 1991-12-27                            |   |
|                    | 2                     | WO02/14649A1            |                        | PCT     | 2002-02-21                            |   |
|                    | 2                     | WO01/94739A1            |                        | PCT     | 2001-12-13                            |   |
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|                    | 7                     | WO01/83932A1            |                        | PCT     | 2001-11-08                            |   |
|                    | 8                     | WO00/37771              |                        | PCT     | 2000-06-29                            |   |

Examiner Signature

Date Considered

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| Sheet  | 2 | of | 2 | Application Number       |          |
|  |   |    |   | Filing Date              |          |
|  |   |    |   | First Named Inventor     | Moriarty |
|  |   |    |   | Group Art Unit           |          |
|  |   |    |   | Examiner Name            |          |
|  |   |    |   | Attorney Docket Number   | 19.0353  |

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
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